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1 Supporting personal collections across digital libraries in spatial hypertext

Frank M. Shipman, Haowei Hsieh, J. Michael Moore, Anna Zacchi

June 2004   **JCDL '04:** Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM   Request Permissions

Full text available: Pdf (2.38 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 65,   Citation Count: 4

Creating, maintaining, or using a digital library requires the manipulation of digital documents. Information workspaces provide a visual representation allowing users to collect, organize, annotate, and author information. The Visual Knowledge Builder(VKB) ...

Keywords: collection organization, incremental formalization, information triage, information visualization, metadata, spatial hypertext

2 External memory algorithms and data structures: dealing with **massive data**

Jeffrey Scott Vitter

June 2001   **Computing Surveys (CSUR)**, Volume 33 Issue 2

Publisher: ACM   Request Permissions

Full text available: Pdf (828.46 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 107,   Downloads (12 Months): 934,   Citation Count: 95

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

3 A framework for constructing features and models for intrusion detection systems

Wenke Lee, Salvatore J. Stolfo

November 2000

Transactions on Information and System Security (TISSEC), Volume 3 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (187.03 KB)

Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 83,   Downloads (12 Months): 617,   Citation Count: 52

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, ...

Keywords: data mining, feature construction, intrusion detection

4 Effective Web data extraction with standard XML technologies

Jussi Myllymaki

April 2001

WWW '01: Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (198.81 KB)

Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 74,   Citation Count: 8

Keywords: crawling, data extraction, deep Web, semistructured data, wrappers

5 HydroJ: object-oriented pattern matching for evolvable distributed systems

Keunwoo Lee, Anthony LaMarca, Craig Chambers

November 2003

OOPSLA '03: Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications

Publisher: ACM Request Permissions

Full text available: Pdf (311.06 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 60,   Citation Count: 8

In an evolving software system, components must be able to change independently while remaining compatible with their peers. One obstacle to independent evolution is the *brittle parameter problem*: the ability of two components to communicate can ...

Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented programming, pattern matching, semi-structured data, software evolution, ubiquitous computing

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11

6 Display space usage and window management operation comparisons between single monitor and multiple monitor users

Dugald Ralph Hutchings, Greg Smith, Brian Meyers, Mary Czerwinski, George Robertson

May 2004   **AVI '04:** Proceedings of the working conference on Advanced visual interfaces

Publisher: ACM

Full text available: Pdf (91.48 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 135,   Citation Count: 22

The continuing trend toward greater processing power, larger storage, and in particular increased display surface by using multiple monitor supports increased multi-tasking by the computer user. The concomitant increase in desktop complexity has the ...

Keywords: UI logs, automation, multiple monitors, space management, user interaction, window management

7 Effective timestamping in databases

Kristian Torp, Christian S. Jensen, Richard Thomas Snodgrass

February 2000   **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (198.04 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 76,   Citation Count: 9

Many existing database applications place various timestamps on their data, rendering temporal values such as dates and times prevalent in database tables. During the past two decades, several dozen temporal data models have appeared, all with timestamps ...

Keywords: Timestamping, Transactions

8 Cluster communication protocols for parallel-programming systems

Kees Verstoep, Raoul A. F. Bhoedjang, Tim Rühl, Henri E. Bal, Rutger F. H. Hofman

August 2004   **Transactions on Computer Systems (TOCS)** , Volume 22 Issue 3

Publisher: ACM   Request Permissions

Full text available: Pdf (1.29 MB)   Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 116,   Citation Count: 0

Clusters of workstations are a popular platform for high-performance computing. For many parallel applications, efficient use of a fast interconnection network is essential for good performance. Several modern System Area Networks include programmable ...

Keywords: Clusters, parallel-programming systems, system area networks

9 A multimodal learning interface for grounding spoken language in sensory perceptions

Chen Yu, Dana H. Ballard

July 2004 **Transactions on Applied Perception (TAP)** , Volume 1 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (1.73 MB)　　Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,　Downloads (12 Months): 97,　Citation Count: 5

We present a multimodal interface that learns words from natural interactions with users. In light of studies of human language development, the learning system is trained in an unsupervised mode in which users perform everyday tasks while providing ...

Keywords: Multimodal learning, cognitive modeling, multimodal interaction

10 ChangeDetector™: a site-level monitoring tool for the WWW

Vijay Boyapati, Kristie Chevrier, Avi Finkel, Natalie Glance, Tom Pierce, Robert Stockton, Chip Whitmer

May 2002 **WWW '02:** Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (582.12 KB)　　Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,　Downloads (12 Months): 65,　Citation Count: 9

This paper presents a new challenge for Web monitoring tools: to build a system that can monitor entire web sites effectively. Such a system could potentially be used to discover "silent news" hidden within corporate web sites. Examples of silent news ...

Keywords: URL monitoring, classification, information extraction, intelligent crawling, machine learning

11 Mining specifications

Glenn Ammons, Rastislav Bodík, James R. Larus

January 2002 **POPL '02:** Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Publisher: ACM Request Permissions

Full text available: Pdf (305.87 KB)　　Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 22,　Downloads (12 Months): 142,　Citation Count: 73

Program verification is a promising approach to improving program quality, because it can search all possible program executions for specific errors. However, the need to formally describe correct behavior or errors is a major barrier to the widespread ...

Also published in:

January 2002 **SIGPLAN Notices** Volume 37 Issue 1

12 Geographic location tags on digital images

Kentaro Toyama, Ron Logan, Asta Roseway

November 2003   **MULTIMEDIA '03:** Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM   Request Permissions

Full text available: Pdf (1.97 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 267,   Citation Count: 47

We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and ...

Keywords: GIS, digital photography, geographic interfaces, image databases

13 Distance-based outliers: algorithms and applications

Edwin M. Knorr, Raymond T. Ng, Vladimir Tucakov

February 2000   **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (613.90 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 29,   Downloads (12 Months): 192,   Citation Count: 38

This paper deals with finding outliers (exceptions) in large, multidimensional datasets. The identification of outliers can lead to the discovery of truly unexpected knowledge in areas such as electronic commerce, credit card fraud, and even the analysis ...

Keywords: Algorithms, Data mining, Data mining applications, Outliers/ exceptions

14 Pavlov: an interface builder for designing animated interfaces

David Wolber

December 1997   **Transactions on Computer-Human Interaction (TOCHI)** , Volume 4 Issue 4

Publisher: ACM   Request Permissions

Full text available: Pdf (1.09 MB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 41,   Citation Count: 7

Conventional interface builders provide little support for interactive development of interfaces with application-specific graphics. Some Programming by Demonstration (PBD) systems do provide such support, but none provide full support for demonstrating ...

Keywords: animation, programming by demonstration, user interface design environments

15 A sensor network application construction kit (SNACK)

Ben Greenstein, Eddie Kohler, Deborah Estrin

November 2004   **SenSys '04:** Proceedings of the 2nd international conference on Embedded networked sensor systems

Publisher: ACM   Request Permissions

Full text available: Pdf (214.69 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 57,   Citation Count: 17

We propose a new configuration language, component and service library, and compiler that make it easier to develop efficient sensor network applications. Our goal is the construction of smart application service libraries: high-level libraries that ...

Keywords: NesC, TinyOS, configuration languages, sensor networks

16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997   **CASCON '97:** Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: Pdf (4.21 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 84,   Downloads (12 Months): 396,   Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

17 A comparative study of parallel and sequential priority queue algorithms

Robert Rönngren, Rassul Ayani

April 1997   **Transactions on Modeling and Computer Simulation (TOMACS)** , Volume 7 Issue 2

Publisher: ACM   Request Permissions

Full text available: Pdf (640.10 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 129,   Citation Count: 13

Priority queues are used in many applications including real-time systems, operating systems, and simulations. Their implementation may have a profound effect on the performance of such applications. In this article, we study the performance of well-known ...

Keywords: parallel access priority queue, pending event set implementations, priority queue

18 Topology discovery in heterogeneous IP networks: the *NetInventory* system

Yuri Breitbart, Minos Garofalakis, Ben Jai, Cliff Martin, Rajeev Rastogi, Avi Silberschatz

June 2004   **IEEE/ ACM Transactions on Networking (TON)** , Volume 12 Issue 3

Publisher: IEEE Press

Full text available: Pdf (435.97 KB)   Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 39,   Downloads (12 Months): 326,   Citation Count: 2

Knowledge of the up-to-date physical topology of an IP network is crucial to a number of critical network management tasks, including reactive and proactive resource management, event correlation, and root-cause analysis. Given the dynamic nature of ...

Keywords: IP network management, SNMP MIBs, physical network topology, switched Ethernet

19 Hybrid dynamic data race detection

Robert O'Callahan, Jong-Deok Choi

June 2003   **PPoPP '03:** Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming

Publisher: ACM   Request Permissions

Full text available: Pdf (158.47 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 35,   Downloads (12 Months): 259,   Citation Count: 42

We present a new method for dynamically detecting potential data races in multithreaded programs. Our method improves on the state of the art in accuracy, in usability, and in overhead. We improve accuracy by combining two previously known race detection ...

Keywords: Java, dynamic race detection, happens-before, lockset hybrid

Also published in:
October 2003 **SIGPLAN Notices** Volume 38 Issue 10

20 Invariance in motion analysis of videos

Cen Rao, Mubarak Shah, Tanveer Syeda-Mahmood

November 2003   **MULTIMEDIA '03:** Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM   Request Permissions

Full text available: Pdf (539.14 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 43,   Citation Count: 0

In this paper, we propose an approach that retrieves motion of objects from the videos based on the dynamic time warping of view invariant characteristics. The motion is represented as a sequence of dynamic instants and intervals, which are automatically ...

Keywords: human actions, learning, spatiotemporal curvature, view-invariant action representation, view-invariant dynamic time warping, view-invariant measure

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